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> [maXpeedingrods Go Kart Forward/Reverse Gearbox Kit \(Model YW65\) Instruction Manual](#)

maXpeedingrods YW65

maXpeedingrods Go Kart Forward/Reverse Gearbox Kit (Model YW65)

Instruction Manual

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1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your maXpeedingrods Go Kart Forward/Reverse Gearbox Kit, Model YW65. This kit is designed to add forward, reverse, and neutral shifting capabilities to go-karts and utility vehicles equipped with 2HP-13HP 4-stroke engines and 30 Series Torque Converters.

Please read this manual thoroughly before attempting installation or operation to ensure safety and optimal performance of the gearbox.

2. PRODUCT COMPONENTS

The maXpeedingrods Go Kart Forward/Reverse Gearbox Kit includes the following main components:



Image: Overview of the maXpeedingrods Go Kart Forward/Reverse Gearbox Kit, displaying the gearbox unit, shifter assembly, cables, mounting hardware, and sprockets.

- **Forward/Reverse Gearbox:** Main unit with 5/8" shaft and 3/16" keyway.
- **Shifter Assembly:** Lever for selecting Forward, Reverse, or Neutral modes.
- **Shifter Cables:** Two cables, approximately 1540mm (60 inches) long, connecting the shifter to the gearbox.
- **Mounting Plates:** Two plates for securing the gearbox.
- **Shifter Disc:** Component for cable attachment to the gearbox.
- **Sprockets:** One 10T sprocket for #40/41/420 chain and one 12T sprocket for #35 chain.
- **Hardware:** Various bolts, nuts, washers, and a key for installation.

Product List

NOTE: Kit does not come with bracket to mount gear assembly to motor mount

		
1 X Gearbox with 3/16" Keyway	1 X Shifter assembly	2 X Shifter cable
		
1 X Mounting plate	1 X Regulator	1 X Shifter disc
		
1 X 10T and 12T Sprocket	1 x "U"tube	1 x Key
		
2 x Washer	3 x Long screws	
		
1 X Plastic Ring	3 x Screw	2 x Jackshaft nut
		
1 x Spacer	1 x nut	

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Image: A detailed visual list of all components included in the kit, such as the gearbox, shifter assembly, cables, sprockets, mounting hardware, and small parts.

3. SPECIFICATIONS

Feature	Specification
Shaft Size	5/8" with 3/16" keyway
Engine Compatibility	2HP - 13HP 4-stroke engines
Torque Converter Compatibility	30 Series Torque Converters only
Forward Ratio	1:1.3
Reverse Ratio	1:2.6
Gearbox Speed	5/13 of Clutch speed
Shifter Cable Length	1540mm (approx. 60 inches)
Sprocket Options	12T for #35 chain, 10T for #40/41/420 chain
Product Dimensions	7.87 x 7.87 x 7.87 inches (approximate)
Item Weight	12.57 pounds

Specification

Shaft Dia:5/8"

Keyway:3/16"

Forward Ratio:1.3:1

Reverse Ratio:2.6:1

RPM:2000±200



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Image: Visual representation of key specifications such as shaft diameter, keyway size, forward ratio, reverse ratio, and RPM.

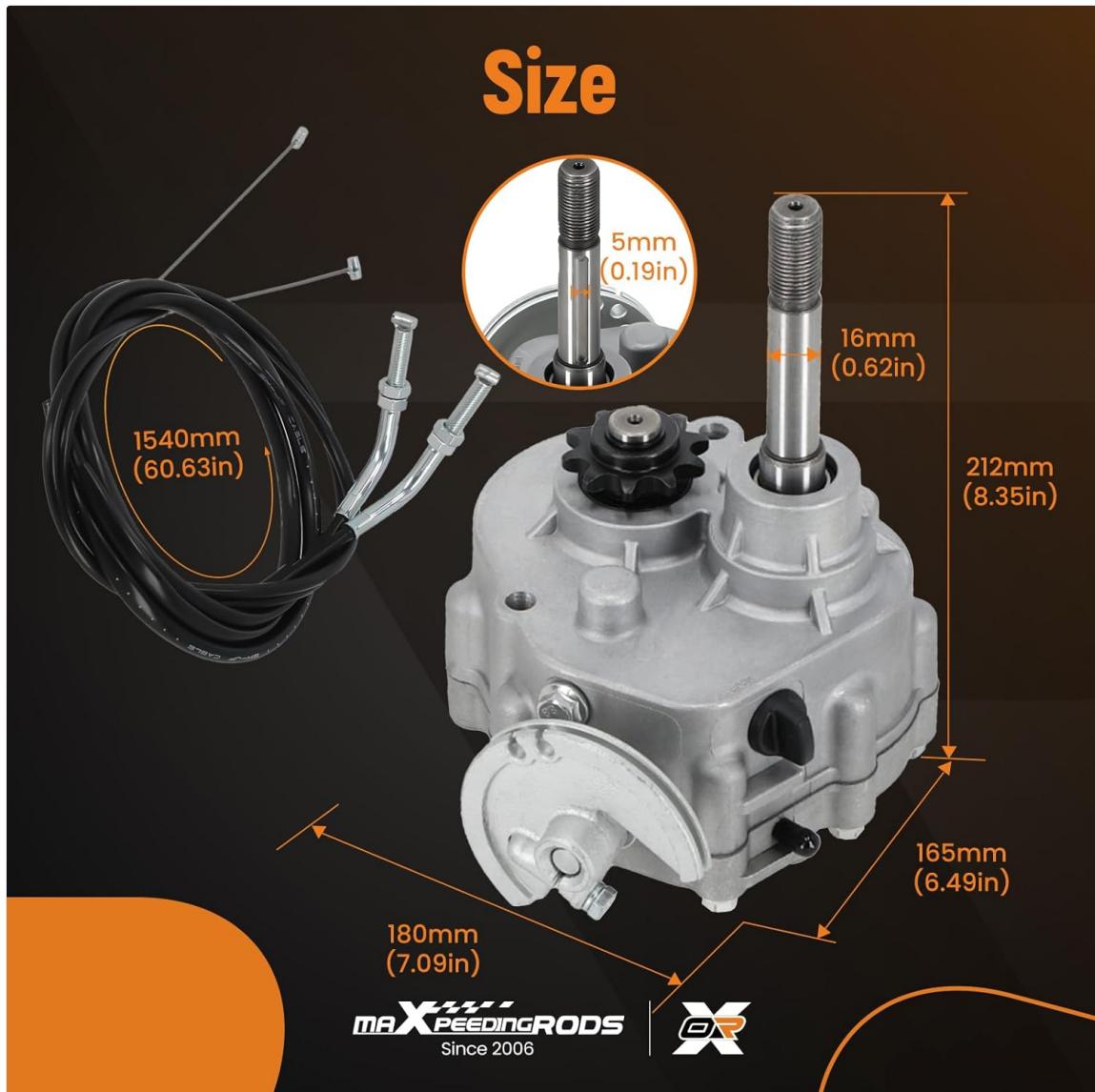


Image: Diagram illustrating the physical dimensions of the gearbox unit in both millimeters and inches.

4. SAFETY INFORMATION

WARNING: Failure to follow these safety instructions may result in serious injury or property damage.

- Always wear appropriate personal protective equipment (PPE), including safety glasses and gloves, during installation and maintenance.
- Ensure the engine is turned off and cooled down before performing any work on the gearbox or related components.
- Disconnect the spark plug wire to prevent accidental engine startup.
- Keep hands, feet, and clothing clear of moving parts, especially chains and sprockets, during operation.
- Ensure all fasteners are tightened to the manufacturer's specifications to prevent components from loosening during operation.
- This kit is intended for use with 30 Series Torque Converters only. Using it with incompatible systems may lead to damage or unsafe operation.
- If you are not mechanically inclined or lack the necessary tools, seek professional assistance for installation.

5. INSTALLATION INSTRUCTIONS

Installation of this gearbox kit requires mechanical aptitude and may involve fabrication and welding. The kit does not include a bracket to mount the gear assembly to the motor mount. Users may need to source or fabricate additional components for a secure installation.

General Installation Steps (May vary based on specific go-kart model):

1. Preparation:

- Ensure the go-kart engine is off and cool. Disconnect the spark plug wire.
- Remove the existing clutch and driven pulley from the go-kart.
- Assess the mounting location for the gearbox. Fabrication of custom mounting brackets may be necessary.

2. Gearbox Mounting:

- Securely mount the gearbox to the go-kart frame. This often requires custom fabrication, such as welding angle iron to the existing motor mount structure.
- Ensure the gearbox is positioned correctly to align the drive sprocket with the torque converter's driven pulley.
- The center distance between the drive and clutch shafts should be approximately 10 3/4 inches for optimal belt tension.

3. Sprocket and Chain Installation:

- Install the appropriate sprocket (10T for #40/41/420 chain or 12T for #35 chain) onto the gearbox output shaft.
- Connect the chain between the gearbox output sprocket and the rear axle sprocket. Adjust chain tension as needed.

4. Shifter Assembly and Cable Connection:

- Mount the shifter assembly in a convenient location for the operator.
- Attach the two shifter cables to the shifter assembly.
- Route the cables to the gearbox and connect them to the shifter disc mechanism.
- Ensure smooth operation of the shifter lever and proper engagement of the gearbox modes (Forward, Neutral, Reverse).

5. Final Checks:

- Verify all bolts and fasteners are securely tightened.
- Check for any obstructions or rubbing parts.
- Ensure the gearbox is filled with the correct type and amount of gear oil (see Maintenance section).

Go Kart Reverse Kit

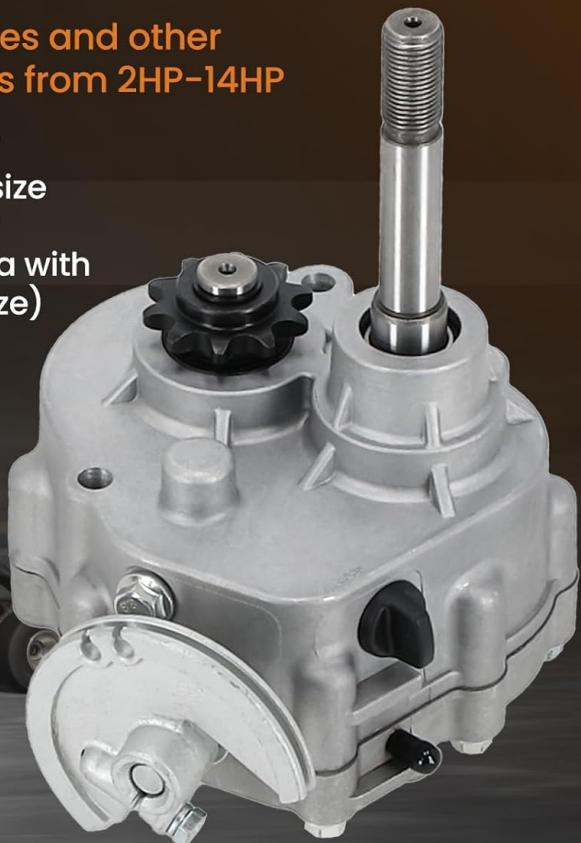


Image: An example of the Go Kart Reverse Kit installed on a go-kart, showing the gearbox connected to the engine and drive system.

Fitment

for go-karts, utility vehicles and other applications with engines from 2HP-14HP

Note: Not for original COMET 30/40 series with 5/8 bore size driven clutch. While it can fit cloned clutch Made in China with 5/8" (actuarially is 16mm size) driven clutch



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Image: Information regarding the fitment of the gearbox kit, specifying compatibility with 2HP-14HP engines and 30/40 series driven clutches (with notes on cloned clutches).

6. OPERATING INSTRUCTIONS

The gearbox provides three distinct shift modes for convenient operation:

- **Forward (F):** Engages the forward gear, allowing the go-kart to move forward.
- **Neutral (N):** Disengages both forward and reverse gears, allowing the engine to run without power transfer to the wheels. This mode is ideal for starting the engine or idling.
- **Reverse (R):** Engages the reverse gear, allowing the go-kart to move backward.

Shifting Procedure:

1. Always bring the go-kart to a complete stop before shifting between Forward, Neutral, and Reverse.
2. Move the shifter lever firmly and deliberately to the desired position (F, N, or R).
3. Avoid forcing the shifter. If resistance is met, slightly release the accelerator or gently rock the go-kart to allow gears to align.

3 Shift Models



Forward/Reverse/Neutral

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Image: The shifter assembly with labels indicating the Forward (F), Neutral (N), and Reverse (R) shift modes.

7. MAINTENANCE

Regular maintenance ensures the longevity and reliable performance of your gearbox kit.

- **Gear Oil:** The gearbox is pre-filled with oil from the factory. When the oil level is low or after extended use, refill with GL-5 gear oil. The oil level should be approximately half of the gearbox capacity.
- **Inspection:** Periodically inspect the gearbox, chains, sprockets, and cables for wear, damage, or loose connections.
- **Lubrication:** Keep chains properly lubricated to reduce wear and friction.
- **Cleaning:** Keep the gearbox and surrounding area clean from dirt, debris, and excessive grease.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Difficulty shifting gears	<ul style="list-style-type: none">Cables are misadjusted or binding.Go-kart not completely stopped.Internal gearbox issue.	<ul style="list-style-type: none">Adjust shifter cable tension.Ensure go-kart is stationary before shifting.Inspect gearbox internals or consult a professional.

Gearbox noise during operation	<ul style="list-style-type: none"> Low or incorrect gear oil. Worn gears or bearings. Loose mounting. 	<ul style="list-style-type: none"> Check and refill with GL-5 gear oil. Inspect for wear; replace components if necessary. Tighten all mounting bolts.
Chain frequently derails	<ul style="list-style-type: none"> Improper chain tension. Misaligned sprockets. Worn chain or sprockets. 	<ul style="list-style-type: none"> Adjust chain tension. Verify sprocket alignment. Replace worn chain or sprockets.

For issues not covered here, or if problems persist, please contact maXpeedingrods customer support.

9. WARRANTY AND SUPPORT

maXpeedingrods products are manufactured to high standards. For specific warranty details, please refer to the documentation provided with your purchase or contact maXpeedingrods customer service directly.

If you have any questions, require technical assistance, or need to report a problem, please contact maXpeedingrods customer support through their official channels or visit their Amazon store page:

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Model: YW65

Related Documents - YW65

 <p>USER MANUAL</p> <p>MXR5500 Digital Inverter Generator</p>	<p>maXpeedingrods MXR5500 Inverter Generator User Manual</p> <p>Essential safety and operational guide for the maXpeedingrods MXR5500 5500W gasoline inverter generator. Covers pre-operation checks, fluid management, maintenance, and storage procedures.</p>
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